



Broadband is the principal tool to address our top societal challenges. Some call it a utility, a civic right.

National Applications					
Health Care	Energy/ Environment	Education	Government Operations	Economic Opportunity	Public Safety
 Electronic health records Remote/home monitoring Mobile monitoring Telemedicine Health information exchange 	 Smart grid Smart home applications Smart transportation Telework 	 American Graduation Initiative STEM Nat'l Ed Tech Plan eBooks and content Electronic student data management 	 Service delivery and efficient government Improved performance Transparency Civic engagement Policy 	 Job creation and economic development Job training and placement Community development 	 Interoperable, mission-critical voice and broadband network Next-gen 9-1-1 Alerts Cybersecurity
Innovation and Investment Inclusiveness Consumer Welfare					

From Blair Levin, architect of federal broadband plan

Innovative Social Enterprise

- Founded 2003 as 501(c)(3)
- Provide robust internet to thousands of:
 - Public-interest sites via fiber optics for a small fee
 - Underserved residents with free WiFi/WiMax
- Open-access network shared with carriers who then serve businesses/consumers (wired and wireless)
- Dedicated program office to drive adoption and use

Our Regional Community Network

Serving NEO market (>\$170 billion GDP and pop. 5 MM)



Ohio Middle-mile Consortium

Critical Economic Development Asset

- Provide nearly unlimited digital infrastructure to thousands of regional "public interest" sites
- Raised more than \$150 million to support hundreds of local direct jobs and capital build
- Led the training and equipping of >19,000 households on how to use the internet for jobs and better health; 43% trained this year already have better employment conditions

Vision for a Smarter Community

Dedicated staff to catalyze regional planning or centers of excellence for IT use/innovation:

- Mealth Care
- Education/Workforce
- C e-Government & Public Safety
- Energy and Transportation
- **Solution** Economic Development
 - Jobs, productivity
 - Innovation, R&D
 - Attract businesses, talent, and capital

Leveraging our assets and resources to serve as a competitive advantage for our economy



Case Study: Education/Workforce

Program office:

- Develop and support IT strategies for regional schools
- Developed/executed IT restructuring plan for Cleveland public schools
- Revamped Academic Transformation Plan, infusing best practices in IT
- Develop and support parent-engagement strategies with IT
- Connect region's higher ed and PK-12 systems (>1,000) and their content partners via 1 Gbps fiber



Education: Public-Private Partnership







Technology to drive improved educational outcomes:

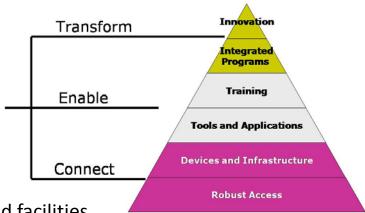
- Raised private funds for:
 - Broadband (\$10 million)
 - Teacher training on digital tools (\$2 million)
 - Community Tech Executive (CIO for >3 years)
 - Refurbished PCs for schools program (10,000+)
 - Student assessment tools, accelerated learning systems
 - Distance learning and internships
- Graduation rates up > 10%, attributed to new IT tools

Case Study: Digital Divide

- Developed a consortium of diverse regional training centers
- Transformed them into a collaborative regional system focused on

digital literacy

- Provided:
 - Common curriculum
 - Advanced IT tools and equipment
 - Funding for expanded staffing, systems and facilities



- In past year, trained more than 19,000 households
 - Provided affordable computers and access solutions
- Already, almost half have new or better jobs

Connected Community: Challenges

- Demand side:
 - Non-users don't see the relevance or importance
 - Public sector lags in IT adoption, talent, capital
- Supply side: U.S. poor regulatory/policy history
- Resistance to change infrastructure requires time and capital:
 - Inevitable political shifts
 - Well-resourced special interests
- Example 20 Few leaders have the vision and are able to manage all of these issues simultaneously

Lesson: This is not a tech project, it's change management

Need holistic approach:

- Diverse champions, common vision
- Public/private governance structures
- Dedicated human resources for project and change management
- Driving toward cohesive, collaborative systems that share

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Recommended Action Plan

- Agree on top social priorities to rally around
- Resource a dedicated team to convene, coordinate, and problem solve
- Develop broad, rather neutral leadership group that is action-oriented and collaborative
- Collectively envision how each institution can contribute toward this 21st-century vision
- Engage local providers and tech co's early
- Align and share existing resources to drive winwin strategies and outcomes

Critical Success Factors

Winners are:

- Most committed and resourceful
- Broad, neutral, distributed and empowered leadership
- Outcome-oriented
- Listen well and create sustainable, win-win strategies:
 - Aggregate and increase demand
 - Lower barriers to entry (i.e. costs, time, effort)
 - Incent and catalyze supply side